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FROM:
Jessica Hopkins, MD, MHSc, CCFP, FRCPC
Medical Officer of Health

**Key messages:**
- There is increasing influenza B activity in Peel, administer QIV to unvaccinated individuals over 18 years of age.
- There is an outbreak of drug-resistant typhoid fever in Pakistan.
- Vaccinate travelers to Africa’s meningitis belt or neighbouring countries against meningococcal disease.
- Current travel health advice and advisories available at: [https://travel.gc.ca/](https://travel.gc.ca/).

**Quadrivalent influenza vaccine (QIV) available to unvaccinated individuals over 18 years old**

In response to the increasing influenza B activity in Peel, QIV is now available to order for unvaccinated individuals over 18 years of age.
- There is no evidence to support re-vaccination for those who have already received Trivalent influenza vaccine (TIV).

Prior to ordering influenza vaccine, please check your current vaccine inventory of QIV. Influenza vaccine orders can be placed online at: [http://peelregion.ca/health/professionals/V-07-699.htm](http://peelregion.ca/health/professionals/V-07-699.htm).


**TRAVEL HEALTH NOTICE: Ceftriaxone resistant typhoid fever in Pakistan**

Pakistan is currently experiencing an outbreak of drug-resistant typhoid fever (*Salmonella typhi*). Pakistan is the second most common travel country among Peel’s typhoid fever cases (approximately 20% of cases).

**Physicians are encouraged to:**
- Request antibiotic sensitivity testing on clinical specimens suspected of being *Salmonella typhi* acquired in Pakistan.
- For travellers to the affected area, recommend typhoid immunization and encourage safe food and water practices.

**Outbreak details:**
- Two regions of Hyderabad, Pakistan impacted.
- Over 800 cases of drug-resistant typhoid reported in Hyderabad in a 10-month period (2016-2017) compared to only six cases across the country (2009-2014).
- Cases are resistant to the 3rd-generation cephalosporin antibacterial ceftriaxone.
- Children 2-10 years of age seem to be most impacted but data is limited.
- The exact source has not been determined.
- A mass immunization campaign focusing on children has been launched in Hyderabad.
TRAVEL HEALTH NOTICE: High risk for outbreak of invasive meningococcal disease in Africa

Countries in Africa’s meningitis belt and neighboring countries are at a high risk for a large outbreak of invasive meningococcal disease caused by serogroup C. The potential for outbreak is due to a new hyper-invasive strain of meningococcal meningitis serogroup C and acute shortage of meningitis C-containing vaccine in the region.

Physicians are encouraged to:
- Vaccinate travelers to Africa’s meningitis belt or neighboring countries against meningococcal disease